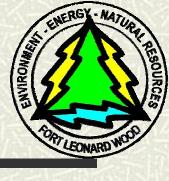


DPW – Environmental Division Energy Branch



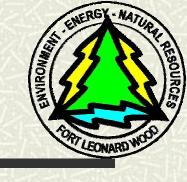
Family Housing Energy Summary

Fiscal Years 1998 - 2001

Allen Simpson

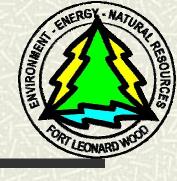
Ron Pemberton

ELECTRIC USE & COST



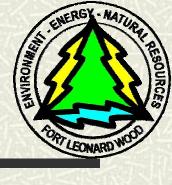
		KWH'S		COST
		USED	COST	KWH
	Y98	29,825,081	\$1,723,929	\$0.0578
F	Y99	30,566,950	\$1,766,797	\$0.0578
F	Y00	34,735,921	\$1,608,397	\$0.0463
F	Y01	33,438,910	\$1,571,907	\$0.0470

NATURAL GAS USE & COST



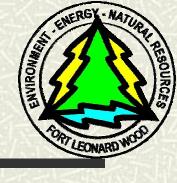
	Cubic Feet	Natural Gas	Average Cost
议之沙	Used	Cost	Cubic Foot
FY98	177,836,081	\$2,783,633	\$0.0157
FY99	142,398,642	\$2,833,565	\$0.0199
FY00	169,998,060	\$2,839,370	\$0.0167
FY01	201,519,884	\$3,807,043	\$0.0189

COST PER SQUARE FOOT



737	ELC & NAG	FH	AVG		TONS	温水
FY	COST	TOTAL FT2	COST/FT2	% CHG	AC	% CHG
FY98	\$4,507,562	3,367,000	\$1.3387		6,309	
FY99	\$4,600,362	3,217,000	\$1.4300	6.8%	6,153	-2.5%
FY00	\$4,447,767	3,195,000	\$1.3921	-2.7%	6,218	1.1%
FY01	\$5,378,950	3,198,000	\$1.6820	20.8%	6,218	0.0%
$\langle - \rangle / -$			22/25/7/	是炒%		/是///

Total Consumption by Fiscal Year



	Electric MBTU's	Natural Gas MBTU's	Total MBTU's	Percent Change	Weater Adjusted Use
FY98	101,793	183,349	285,142		292,847
FY99	104,325	146,813	251,138	-11.9%	263,978
FY00	118,554	175,268	293,822	17.0%	321,392
FY01	114,127	207,767	321,894	9.6%	321,859

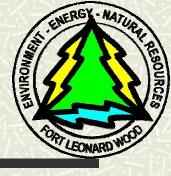
FH ELECTRIC BILL – 1

		7///>				题是可是	(%)	46
О	2-4 THAYER	1,758	#4200	81	142,398		2,732	
Р	6-8 THAYER	2,070	#4202	19	39,330		3,211	
S	1 KIRBY (AVG)	2,108	#4501	15	24,721	1./	1,483	CAT LEONARD WO
Total	9 KIRBY (AVG)	1,900	#4509	9	15,043	Color Laborat	1,504	1.1113
Р	54-56 THAYER	2,318	#4230	50	115,900		3,084	0.7516
BLDG	METER	KWH		# OF	TOT KWH			MONTHLY
YPE	LOCATION	USAGE	OTHER	UNITS	USAGE		FT2	USE/FT2
N	ICO'S HOUSING AREA	X				VALSA		
	TOO THOUSING AREA					/-/		
V-4	75-81 CABLE	4,080	#9281	28	114,240		4,944	0.8252
J	18-19 KELLY-FUNK	2,022	#8532	8	16,176	Editor B	2,128	0.9502
I-4	25-31 TURNER	6,960	#8279	78	542,880		4,784	1.4548
I-6	97-107 TURNER	14,160	#8261	12	169,920	- / L () - / L (_/)	7,152	1.9799
I-8	9-23 TURNER - 2 ELC	16,880	#8281	6	101,280	1/1	9,520	1.7731
J	33-35 BARKLEY	758	#7015	190	144,020		2,016	0.3760
R	119-121 HATLER	6,007	#8843	44	264,308		2,995	2.0057
R-4	71-77 HATLER	4,880	#8829	55	268,400		4,992	0.9776
K	10-12 BURR ST.	2,525	#8357	116	292,900		2,016	1.2525
(L,//	87 SPECKER (AVG)	1,407	#7121	13	22,638	MADSON ZZAZZE	1,567	1.1113
0	62-64 MONTROSE	2,340	#7350	21	49,140		2,432	0.9622
U-4	40-46 FRIZELL	4,000	#9552	30	120,000		4,332	0.9234
U-6	1-11 YOUNG (EMPTY)	0	#9601	16	0	: EMP	6,498	0.0000
U-8	104-118 INDIANA	0	#9052	7	0	: EMP	8,664	0.0000
V	32-34 ELWOOD	33	#9456	45	1,485		2,970	0.0111
V-4	129-135 INDIAN (AVG)	0	#9043	26	0	: EMP	5,442	0.0000

FH ELECTRIC BILL -- 2

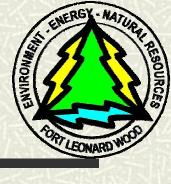
							12	
K	10-12 BURR ST.	2,525	#8357	116	292,900		2,016	
	10 12 2014(01)	2,020	70007		202,000		2,0	
333 6 333	87 SPECKER (AVG)	1,407	#7121	13	22,638	S ID A PLOSING	1,567	PLEOWARD W
0	62-64 MONTROSE	2 340	#7350	21	49.140		2 432	0 962
	OZ OF MONTROOL	2,040	A TOO STATE OF THE PARTY OF THE	CHANGE	DECEMBER HEREITA FOR	ESTABLISM TO SERVICE STATE OF THE SERVICE STATE OF		0.5022
U-4	40-46 FRIZELL	4,000	#9552	30	120,000	Variable D. Valley	4,332	0.9234
U-6	1-11 YOUNG (EMPTY)	0	#9601	16	0	: EMP	6,498	0.000
PERM	PI-VILLEY CONTRACTS	ZILPI PETERDE		add British St	District of the second		HRITO EIGHT	City Manager
U-8	104-118 INDIANA	0	#9052	7	0	EMP	8,664	0.0000
V	32-34 ELWOOD	33	#9456	45	1,485	VALUE VI	2,970	0.011
ASTVA					111111	5.9 (3) 17 (3) 2		2/40
V-4	129-135 INDIAN (AVG)	0	#9043	26	0	EMP :	5,442	0.0000
W	33-35 IMMELL	0	#9109	81	0	EMP	2,908	0.0000
NA / 4	07 02 DIAMOND	2.000	40227	47	25.200	ESSED AND	5.046	0.257
W-4	87-93 DIAMOND	2,080	#9337	17	35,360		5,816	0.3576
W-6	25-35 BOQUET	0	#9111	3	0	EMP	8,724	0.000
	ELECTION OF THE PROPERTY OF TH		GEST AND			ELECTORISTS		
					KWH'S			
June		Family Housi	ng usage			TAGETA NO.		BY ELLY VIEW
	OFFICER'S HOUSING TO	TAL USAGE:			659,154			
28-11-0	12000	VICT Y			330,101			
TO CHARLE	NCO HOUSING TOTAL U	SAGE:			2,142,747			5545ABA
	SUBTOTAL:				2,801,902			
	LIFT STATION & STREET	LIGHTS:			19,740			
ATE ON	(658 KWH/DAY X		DAYS MTH)			U/BASSONS	111111	300 At 1922 V
OTAL MO	ONTHLY USAGE>				2,821,642	KWH'S		66
VEX	FAMILY HOUSING COST	PER KWH:			\$0.0524	\$ / KWH		
OTAL MO	ONTHLY COST>				\$147,854.04			
	MONTHLY KWH ON MET	 ГERS:			83,287	KWH		
A THE REAL PROPERTY.	METERED FT2:	HOLES CONT.	Comme HVA (a co	A Vasalis A	74,945		asalika A	State Course
	AVERAGE KWH/FT2/MT	H AND STREET			1.1113	KWH/FT2/N	ИТН	
	TOTAL FT2:		and the second second second	I S. OL E. HERSELLI	2,957,660	FT2		TO THE REAL PROPERTY.

CG & DCG BILLINGS



	ATTE ESTATION			全人	经 需 经经济			MTH	MTH
T/W		13/13/13/	USE	UNITS	UNIT	TOTAL	A DE TO SELECT	USE	COST
					COST	COST	FT2	FT2	FT2
#1 ESS	SAYONS ST. ((CG) (Pg. 147	/-148)		有文学发表			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
-201	Electric		3,076	KWH	\$0.0524	\$161.18	6,131	0.5017	\$ 0.0263
	Nat Gas	A COLOR	2,900	CuFt	\$0.0783	\$227.14	6,131	0.4730	\$ 0.0370
	Water	6 People	22.8125	Kgal	\$0.5434	\$12.40	6,131	0.0037	\$ 0.0020
11 1	Sewer	AZZZ	18.2500	Kgal	\$1.0351	\$18.89	6,131	0.0030	\$ 0.0031
#2 ESS	SAYONS ST.	(DCG) (Pg. 1	49-150)				501/10 7		
	Electric		2,381	KWH	\$0.0524	\$124.76	5,224	0.4558	\$ 0.0239
	Nat Gas	图 图 图 图 图 图	1,800	The second secon	\$0.0783	\$140.98	5,224	0.3446	\$ 0.0270
	Water	2 People	7.6042	. Kgal	\$0.5434	\$4.13	5,224	0.0015	\$ 0.0008
	Sewer		6.0833	Kgal	\$1.0351	\$6.30	5,224	0.0012	\$ 0.0012
#3 ESS	SAYONS ST.	(MP CMDT) ((Pg. 150a-15	50b):	(These are er	estimates, to be	adjusted once	e meter readir	ngs are att
	Electric		2,680	KWH	\$0.0524	\$140.43	4,527	0.5920	\$ 0.0310
1/2/1	Nat Gas		1,700	CuFt	\$0.0783	\$133.15	4,527	0.3755	\$ 0.0294
	Water	2 People	7.6042	. Kgal	\$0.5434	\$4.13	4,527	0.0017	\$ 0.0009
	Sewer		6.0833	Kgal	\$1.0351	\$6.30	4,527	0.0013	\$ 0.0014
#4 ESS	SAYONS ST.	(ENGR CMD	T)(Pg. 150c	-150d):	(These are es	estimates, to be	adjusted once	e meter readir	ngs are att
	Electric	A SEED SEED	2,080	KWH	\$0.0524	\$108.99	4,528	0.4594	\$ 0.0241
	Nat Gas		1,400	CuFt	\$0.0783	\$109.65	4,528	0.3092	\$ 0.0242
	Water	3 People	11.4063	Kgal	\$0.5434	\$6.20	4,528	0.0025	\$ 0.0014
	Sewer	A EMPS II	9.1250	Kgal	\$1.0351	\$9.45	4,528	0.0020	\$ 0.0021

Fort Leonard Wood



Fort Leonard Wood

THE CANTONMENT AREA (OMA) 9,763,000 FT² OR 75.3%

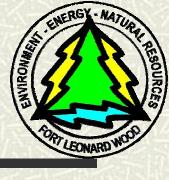
THE FAMILY HOUSING AREA (FH) 3,198,000 FT² OR 24.7%

FAMILY HOUSING, AT FY01 YEAR END, WAS COMPOSED OF:

- . 3,198,000 FT² OF LIVING SPACE
- 1,062 BUILDINGS
- . 6,218 TONS OF AIR CONDITIONING

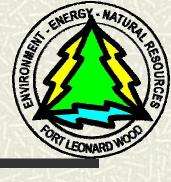
ELECTRIC & NATURAL GAS COST AN AVERAGE OF \$1.6820 PER FY²/YR FOR FAMILY HOUSING

Family Housing – FY01 Electrical Billing Procedures



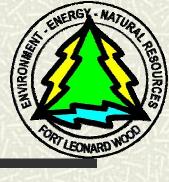
- THERE ARE 1,062 BUILDINGS
- •ONLY 74,945 FT², OR 2.34%, IS METERED
- •THE METERED FT² IS COVERED BY 34 METERS
- •THE AVG METERED USE/FT² IS DETERMINED AND THAT FACTOR IS APPLIED TO THE UNMETERED FT² TO DETERMINE USAGE
- •FH CONSUMED 33,438,910 KWH'S, OR 19.4%, OF THE TOTAL FLW USE OF 172,253,397 KWH'S.
- •FH REIMBURSED DPW \$1,571,907, OR 23.4%, OF THE TOTAL SHO ME POWER INVOICE OF \$6,730,211.72
- •FH ALSO REIMBURSES FOR STREET LIGHTS AT AN AVERAGE USE OF 658 KWH PER DAY. METERS ARE NOT AVAILABLE HERE.

Family Housing – FY01 Natural Gas Billing Procedures



- THREE PRV STATIONS METER FH NATURAL GAS INTAKE
- THERE ARE ALSO OTHER USERS ON THESE METERS THAT HAVE TO BE BACKED OUT OF TOTAL USAGE BEFORE THE FH PORTION OF THE BILL IS DETERMINED.
- FH CONSUMED 207,767 MBTU'S, OR 25.2%, OF THE TOTAL 825,305 MBTU'S CONSUMED BY FLW.
- FH REIMBURSED DPW \$3,807,043, OR 38.3%, OF THE TOTAL \$9,947,164.33 SPENT BY FLW FOR NATURAL GAS.
- A NEW PROPANE AIR PLANT IS ON LINE TO REDUCE THE COST OF HEATING AND TO PROVIDE A BACKUP WHEN PEAKS ARE EXCEEDED OR SUPPLIES OF NATURAL GAS ARE SHORT.

Family Housing – FY01 Water & Sewer Procedures



- •DRM HAS BEEN DETERMINING THE AMOUNT TO CHARGE FH BASED UPON FUNDING AVAILABLE BETWEEN DPW AND FH
- •FH SHOULD BE CHARGED AT LEAST 120 GALLONS PER PERSON PER DAY FOR WATER
- •FH SHOULD BE CHARGED 96 GALLONS PER PERSON PER DAY, OR 80% OF THE WATER, FOR SEWER
- •THE PERCENTAGE OF WATER CONSUMED AND SEWER PROCESSED IS RECALCULATED EACH YEAR AND THAT VARYING PERCENTAGE CAN BE APPLIED TO BILLINGS.
- •METERING DEVICES SHOULD BE INSTALLED BUT HAVE NOT BEEN DUE TO THE CHEAPNESS OF WATER & SEWER HERE AT FLW. IT WOULD NOT BE COST EFFECTIVE TO INSTALL THEM.

Family Housing – FY01 Water & Sewer Costs



	Water	Sewer
FY98	\$125,000	\$172,000
FY99	\$122,000	\$169,000
FY00	\$113,000	\$156,000
FY01	\$115,000	\$159,000